Kentucky Agricultural Experiment Station

——AT THE——

STATE COLLEGE OF KENTUCKY.

BULLETIN NO 12.

Fertilizer Analyses

The following official analyses have been made since the publication of Bulletin No. 10.

TABLE I.

Raw Bone Manures—Analysis and Valuation.

Station Number	Name & Address of Manufacturer	Name of Brand	Pounds in the Hundred							
			Moisture	Phosphoric Acid: In Fine Bone	Phosphoric Acid: In Medium Bone	Phosphoric Acid: Total	Phosphoric Acid: Equivalent to Bone Phosphate.	Nitrogen	Equivalent to Ammonia	Estimated Value per ton.
244	P. B. Mathiason & Co., St. Louis, Mo	Increscent Brand Pure Raw Bone Meal	5.60	23.59	.....	23.59	51.52	4.04	4.90	$35.77
245	Same	Increscent Brand Pure Bone Meal	5.13	21.45	.....	21.45	46.86	4.42	5.37	35.22
255	Globe Fertilizer Co., Louisville, Ky	Pure Raw Bone Meal	7.59	10.79	11.56	22.31	48.73	3.96	4.81	33.19
256	J. B. Jones, Louisville, Ky.	Pure Raw Bone Meal	7.87	10.40	12.21	22.61	49.37	4.02	4.88	33.60
257	.....Same	Pure Ammoniated Bone Meal	5.71	18.50	3.82	22.32	48.76	2.96	3.59	30.37
262	Thompson & Edwards Fertilizer Co., Chicago, Ill.	Fine Ground Bone	4.39	23.32	1.78	25.10	54.82	3.16	3.84	33.79
265	Wm. Skene & Co., Louisville, Ky.	Pure Raw Bone Dust	7.55	13.35	8.87	22.22	48.53	3.31	4.02	31.04
263	C. & F. Singer, Nashville, Tenn.	Pure Raw Bone Meal	6.70	11.97	8.88	20.85	45.54	4.20	5.11	33.00

TABLE II.

National Dissolved Bone, manufactured by the National Fertilizer Co., Nashville, Tenn. Station No. 267. Analysis:—

Moisture	13.28 per cent.
Phosphoric Acid–	
Soluble	8.17 per cent.
Reverted	2.65 per cent.
Insoluble	1.32 per cent.
Total	12.14 per cent.
Nitrogen	1.72 per cent.
Equivalent to Ammonia	2.09 per cent.
Potash	1 92 per cent.

Estimated Value per ton $30.81.

Values Used:—Phosphoric acid in fine bone, 4½ cents per pound; do. in medium bone 4 cents per pound; nitrogen, 18 cents per pound.

Fine bone is all that is fine enough to pass through a sieve with meshes 1-25 inch square. Medium bone passes through a sieve with meshes ⅓ inch square, but does not include fine bone.

M. A. SCOVELL, Director.

Lexington, Ky., December 31, 1887.